DEC STD 017-3 - ISO 9003 - Quality Systems - Model for Quality Assurance in Final Inspection and Test

DOCUMENT IDENTIFIER: A-DS-EL00017-03-0000 Rev A, 17-Jun-1991

ABSTRACT: This standard is identical to ISO 9003, first edition, 1987 (E). The text is reproduced with permission from the International Organization for Standardization for use only within Digital Equipment Corporation. This standard specifies quality system requirements for use when a contract between two parties requires the demonstration of a supplier's capability to detect and control the disposition of any product nonconformity during final inspection and test. This standard is applicable in contractual situations when the conformance of the product to specified requirements can be confidently shown.

APPLICABILITY: This standard, per the policy of DEC STD 017-0, is mandatory for all named sites as listed in A-GL-ELMF732-00-0.

APPROVED 17-Jun-1991; use VTX SMC for current status.

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Responsible Person:	Robert Kennedy

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Robert Kennedy - Corporate Quality Office

Eric Williams - Standards Process Manager

Direct requests for further information to:

Robert Kennedy - Corporate Quality Office
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INTERNATIONAL STANDARD

ISO 9003 - Quality systems - Model for quality assurance in final inspection and test

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75% approval by the member bodies voting.

International Standard ISO 9003 was prepared by Technical Committee ISO/TC 176, *Quality assurance.*

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

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ISO 9003 - Quality systems - Model for quality assurance in final inspection and test

0 Introduction

This International Standard is one of a series of three International Standards dealing with quality systems that can be used for external quality assurance purposes. The alternative quality assurance models, set out in the three International Standards listed below, represent three distinct forms of "functional or organizational capability" suitable for two-party contractual purposes:

— ISO 9001, *Quality systems - Model for quality assurance in design/development, production, installation and servicing.*

For use when conformance to specified requirements is to be assured by the supplier during several stages which may include design/development, production, installation and servicing.

— ISO 9002, *Quality systems - Model for quality assurance in production and installation.*

For use when conformance to specified requirements is to be assured by the supplier during production and installation.

— ISO 9003, *Quality systems - Model for quality assurance in final inspection and test.*

For use when conformance to specified requirements is to be assured by the supplier solely at final inspection and test.

It is emphasized that the quality system requirements specified in this International Standard, ISO 9001 and ISO 9002 are complementary (not alternative) to the technical (product/service) specified requirements.

It is intended that these International Standards will normally be adopted in their present form, but on occasions they may need to be tailored for specific contractual situations. ISO 9000 provides guidance on such tailoring as well as selection of the appropriate quality assurance model, *viz* ISO 9001, ISO 9002 or ISO 9003.

1 Scope and field of application

1.1 Scope

This International Standard specifies quality system requirements for use where a contract between two parties requires the demonstration of a supplier's capability to detect and control the disposition of any product nonconformity during final inspection and test.

1.2 Field of application

This International Standard is applicable in contractual situations when the conformance of the product to specified requirements can be shown with adequate confidence providing that certain supplier's capabilities for inspection and tests conducted on the product supplied can be satisfactorily demonstrated on completion.

2 References

ISO 8402, *Quality - Vocabulary.*

ISO 9000, *Quality management and quality assurance standards - Guidelines for selection and use.*

3 Definitions

For the purposes of this International Standard, the definitions given in ISO 8402 apply.

NOTE

For the purposes of this International Standard, the term "product" is also used to denote "service", as appropriate.

4 Quality system requirements

4.1 Management responsibility

4.1.1 Quality policy

The supplier's management shall define its policy and objectives for, and commitment to, quality.

4.1.2 Organization

4.1.2.1 Responsibility and authority

The responsibility, authority and the interrelation of all personnel engaged in final inspection and/or tests shall be defined.

4.1.2.2 Verification resources and personnel

The supplier shall identify in-house verification requirements, provide adequate resources and assign trained and/or experienced personnel for verifying that product conforms to specified requirements. (See 4.11.)

4.1.2.3 Management representative

The supplier shall appoint a management representative who, irrespective of other responsibilities, shall have defined authority and responsibility for ensuring that the requirements of this International Standard are implemented and maintained.

4.1.3 Management review

The quality system adopted to satisfy the requirements of this International Standard shall be reviewed at appropriate intervals by the supplier's management to ensure its continuing suitability and effectiveness. Records of such reviews shall be maintained (see 4.10).

4.2 Quality system

The supplier shall establish and maintain an effective quality system for inspection and tests on product on completion. This shall include documented procedures for final inspection and test operations, including workmanship standards and quality records.

4.3 Document control

Documented procedures for final inspection and testing shall be reviewed and approved for adequacy by authorized personnel prior to issue. The document control shall ensure that only valid documents are available for final inspection and testing.

4.4 Product identification

Where contractually specified, individual product or batches shall be marked for identification. The identification shall be recorded on related records (see 4.10).

4.5 Inspection and testing

The supplier shall carry out all final inspection and testing in accordance with the documented procedures and maintain appropriate records to complete the evidence of conformance of product to the specified requirements. The final inspection shall include a verification of acceptable results of other necessary inspection and tests performed previously for the purpose of verifying requirements (see 4.10).

4.6 Inspection, measuring and test equipment

The supplier shall calibrate and maintain inspection, measuring and test equipment, to demonstrate the conformance of product to the specified requirements. All inspection, measuring and test equipment used by the supplier for final inspection and testing shall be calibrated and adjusted against certified equipment having a known valid relationship to nationally recognized standards. The supplier shall maintain calibration records for inspection, measuring and test equipment (see 4.10).

4.7 Inspection and test status

The inspection and test status of product shall be identified by using markings, authorized stamps, tags, labels, inspection records, test software, physical location or other suitable means, which indicate the conformance or nonconformance of product with regard to inspection and tests performed. Records shall identify the inspection authority responsible for the release of conforming product (see 4.10).

4.8 Control of nonconforming product

The supplier shall maintain control of product that does not conform to specified requirements.

All nonconforming product shall be clearly identified and segregated, when practical, to prevent unauthorized use, delivery or mixing with conforming product.

Repaired or reworked product shall be re-inspected in accordance with documented procedures.

4.9 Handling, storage, packaging and delivery

The supplier shall arrange for the protection of the quality of product and its identification after final inspection and test. Where contractually specified, this protection shall be extended to include delivery to destination.

4.10 Quality records

The supplier shall maintain appropriate inspection and test records to substantiate conformance with specified requirements. Quality records shall be legible and identifiable to the product involved. Quality records that substantiate conformance with the specified requirements shall be retained for an agreed period and made available on request.

4.11 Training

Personnel performing final inspection and tests shall have appropriate experience and/or training.

4.12 Statistical techniques

Where appropriate, the supplier shall establish procedures for identifying adequate statistical techniques required for verifying the acceptability of product characteristics.

APPENDIX A RELATED DOCUMENTS

A.1 EL-Class Digital Documents

EL-Class Number	Document Title
EL-00017-00	*DEC STD 017-0 Quality Assurance System Requirements*
EL-00017-01	*DEC STD 017-1 - ISO 9001 - Quality Systems - Model for Quality Assurance in Design/Development, Production, Installation and Servicing*
EL-00017-02	*DEC STD 017-2 - ISO 9002 - Quality Systems - Model for Quality Assurance in Production and Installation*
EL-EX754-00	*ISO 9004 - Quality Management and Quality System Elements - Guidelines*
EL-EX755-00	*ISO 8402 Quality - Vocabulary*
EL-EX756-00	*ISO 9000 - Quality Management and Quality Assurance Standards - Guidelines for Selection and Use*
EL-MF732-00	*Applicability of Quality Assurance System Requirements*

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EL-MF732-00 is currently being developed. Refe to VTX SMC for current status.

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